AP-WP100 Wi-Fi Phone Quick User Guide



AddPac Technology





Caution: This wireless device may have radio interference and is not recommended to be used for the service related to the safety of life.



Major Features

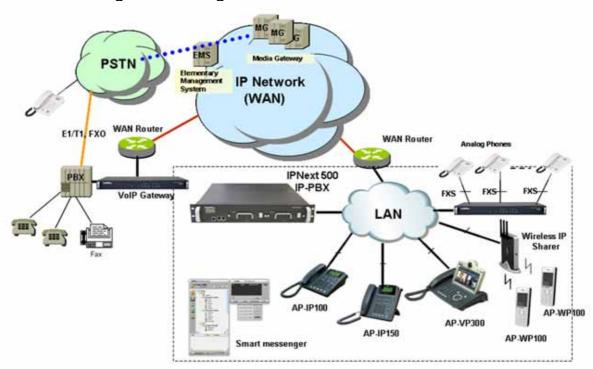
Overall

- >> Speaker Phone
- » A Variety of Key Features (ie. Push-to-Talk service)
- >> Voice Mail Interworking with the AddPac IP-PBX
- SIP-based VoIP Signaling
 Optimal Voice Quality by applying QoS to Cope with many different delays and Packet Errors in Internet
- Large Graphic LCD Size : 220 x 176 260K Color 2 inch TFT LCD
- » Flash Memory 32MByte, mSDRAM 32MByte
- » Audio Input/ Out Interface for Headset and external Speaker
- Wireless : IEEE802.11b/g Support

Network Service

- High-performance IP-Routing Capability with Reliability
- >> Traffic Queuing, and SNMP MIB v2 for Network Management Features
- Standard & Extended Access List for Security Functions
- » IP Accounting, and Debugging/Diagnostics, etc.
- » DNSProxy, UPnP, MAC Address Filter Service

Network Configuration Diagram





Hardware Specification

Micro processor	High Performance RISC CPU A	rchitecture	
Memory	Flash Memory 32Mby	rte	
	Main Memory 32Mby	rte SDRAM	
Wireless	IEEE 802.11 b/g Support		
	Operating Frequency : 2412 MHz ~ 2472 MHz		
	802.11g : 54, 48, 36, 24,18, 12, 9, 6Mbps, Auto Rate		
	802.11b : 11, 5.5, 2, 1Mbps , Auto Rate		
	Operating Channels : 13 channels		
	Output power : under 10 mW		
	Modulation : CCK, OFDM		
Audio Interface	MIC-IN, Receiver Out, Speaker Out, Head Phone Out		
Key Pad	23 Keys (Front) + 4Keys (Side), 8 Back Light LEDs		
IO Port	Ear-phone jack 2.5mm, 4 Contact		
	24PIN Data Connector - USB Device, RS232 TTL, Battery Charge 4.2V or 5V(USB)		
	3PIN Battery Charge Connector		
Power & Operation Environments		/: 3.7V, 1330mAh Lithium Polymer / (Inner Pack Type)	
	Operating Temperature -10°C	to + 50°C	
	Storage Temperature -40°C	~ +85°C (-40° ~ +185°F)	
	Relative Humidity 5% ~ 9	95% (Non-condensing)	

Software Specification

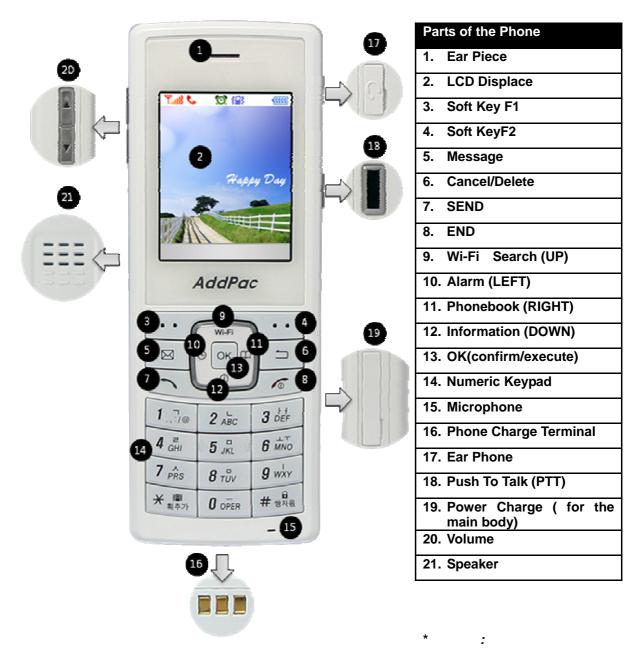
Basic Network Protocol	ARP, IP, IPv6, TCP, UDP, ICMP, ICMPv6, SCTP, IGMP, MLD	
Routing Protocol	IPv4 : Static, IPv6 : Static	
IPv4 Address	Fixed (Static)	
Configuration	EUI-64	
	Autoconfig (Neighbor Advertisement and Solicitation)	
IPv6 Address	Fixed (Static)	
Configuration	EUI-64	
	Autoconfig (Neighbor Advertisement and Solicitation)	
Service Protocol	FTP, Telnet, TFTP, DHCP Server/Relay, SNMP Server	
	DNS Resolver , DDNS(nsupdate)	
	Syslog	
	IPv4/IPv6 policy control (QoS)	
	VPDN (Virtual Provate Dial-up Network : L2TP Server	
Audio Service	Voice Codec	
&	- G.711,G.726, etc.	
Signaling Protocol	SIP Signaling Stack Support	
	SSCP (Smart Service Control Protocol) Protocol for AddPac IP-PBX	
	Interworking : AddPac Proprietary	

	Enhanced QoS Management Features for Voice Traffics			
Miscellaneous	Cisco Style CLI			
	Standard & Extended IPv4/IPv6 Access List			
	Multi-level User Account Management			
	IP accounting			
	STUN Client			
WIFI Security WPA (WIFI Protected Access)				
	Support 802.11i Security standard through implementation of AES/CCMP and WEP with TKIP security mechanism			
QoS	Support 802.11e Quality of Service (QoS)			
Interoperability	Complying with WECA WIFI			
Security Functions	Standard & Extended IP Access List			
	Access Control and Data Protections			
	Enable/Disable for Specific Protocols			
	Multi-Level User Account Management			
	Auto-disconnect for Telnet Sessions			
	System Performance Analysis for Process, CPU, Connection I/F			
Operation	Configuration Backup & Restore			
& Management	Debugging, System Auditing, and Diagnostics Support			
Management	System Booting and Auto-rebooting with Watchdog Feature			
	System Managements with Data Logging			
	IP Traffic Statistics with Accounting			
Other Scalability	Network time Protocol(NTP) Support			
Features				



Using the Phone

The Different Parts and Button Features of Your AP-WP100



AP-WP100 turns off LCD power if the phone is not used for more than 10 second. After 20 seconds the phone enters the power-saving mode.

If you press and hold END for more than 3 seconds, the power is turned on or off. During the phone conversation, please do not press and hold END for a long time



^{*} Press END to exit from the power-saving mode.

Removing the Battery

Push the battery cover downward while pressing the battery cover release button to open Lift up the lower part of the battery and slide down to remove

Installing the Battery

*To install the batter, reverse the procedure shown in the following pictures



Turning-Off/On the Power

If your press END and hold for more than 3 seconds the power is turned on and if you press and hold more than 3 seconds again the power is turned off.

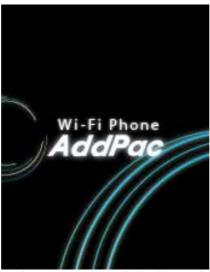


When the power is turned on, the following picture is displayed on the LCD screen.





When the power is turned off normally, the following picture is displayed on the LCD screen



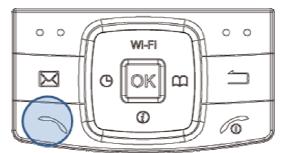
* If the phone is not used for more than 10 seconds, it is changed to the power saving mode as the LCD and button LED lamps are turned off. If you want to use again, press and hold END once.



Making and Receiving a Call

Making a Call by Entering a Phone Number

Enter a number that you want to call and then press SEND.

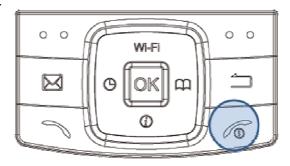


* As AP-WP100 is registered to the IP-PBX as an extension, you have to enter an external outgoing number first

(Example for the external outgoing number: 9 or 8 + Phone number)

Ending a Call

To end a call, press END.



Making a Call by a Number Stored in Recent Call List

Press SEND at the Standby Screen state.

You can search and select the number in the recent call list by using UP/DOWN and then press SEND.



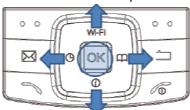
Menu
Using the Button
Press MENU to display 8 main menus.





To enter each main menu

1. Use navigation key to select the menu and then press OK



2. Press the speed dial number (1~8) of each main menu on the numeric keypad.



* Please refer to the next page for the menu table consists of sub-menus for each main menu.



Menu Table

The menu Table of AP-WP100 is organized as to follow:

Main Menu	Sub-Menu	Description of Features
1. PHONE BOOK	1. Search	Search the stored phone number by
		number/name/speed dial number
	2. Add Contact	Register a new number to the phone book
	3. Groups	You can add/delete/change a group stored in the
		phonebook
	4. Speed Dial	Add/delete/change a speed dial number.
2. MESSAGE	1. New Message	Write a message
	2. InBox	Check the received message.
	3. OutBox	Check the sent message
	4. Saved	Check the saved message.
3. ORGANIZER	1. Alarm	Set the alarm.
4. DISPLAY	1. Set Lighting	Set the backlight duration and brightness of the LCD and buttons
	2. Backgnd Image	Set the graphic for the main screen.
	3. Language	Set the language to Korean or English
	4. Menu Type	Select back/white menu type.
5. SOUND	1. Volumes	Adjust the volume for bell/button/phone call.
	2. Bell Sound	You can select up to 8 different bell sound.
	3. Button Tone	Select mute/basic/piano tone.
	4. Bell / Vibration	Select bell/vibrate/vibrate once/ vibrate and ring at the
		same time or ring first and then vibrate
6. CALL SETTING	1. Auto Areacode	Set the automatic area code
7. SYSTEM	 Search WiFi 	Search the wireless Access Point and then register to
SETTING		the profile.
(User Mode)	2. Profile Setup	Delete/Change the registered profile to WiFI search.
	3. Menu Lock	Block an unauthorized access to a specific menu by a password
	4. Password	Set a password to be used for the Menu Lock.
	5. Phonebook Reset	Initialize the data in the stored phonebook.
7. SYSTEM SETTING	1. Search WiFi	Search the wireless access point and then register to the profile
(Administrator	2. Profile Setup	Edit/ Delete the registered in WiFi Search
Mode)	3. SIP Setting	Specify SIP server address and registration information (phone number/ID/Password)
	4. Audio Codec	Select a voice codec
	5. SMS Setting	Configure SMS settings of IPNext Call Manager
	6. Menu Lock	Block the unauthorized access to a specific menu by setting a password
	7. Password	
	O Dhonoback Deart	. Set the password to be used for the Menu Lock.
	8. Phonebook Reset	Initialize the stored data of the phone book
o Buoke hie	9. Factory Default	Initialize all the settings back to the factory default
8. PHONE INFO	1. Network Info	Check the IP information of the connected wireless network
	2. WiFi Status	Check the status of the connected wireless Access Point
	3. My Phone Num.	Check the phone number registered to the SIP server.
	4. Firmware Ver.	Check the firmware version of the phone

5. MAC Address

Check the MAC address of the phone

<SYSTEM SETTING - Administrator Mode Acce

- Press #233722# and the menu button, then Admin Password window appears
- Admin password: 2337



Icon Description

You can check the operational status from the following icons on the top of the LCD screen:

Disconnected to WiFi * The wireless connection is in the abnormal status. Retry connection by using WiFl Search.
The normal connection of WiFi status and Signal Strength. *The signal strength is indicated in 6 different bar types.
Y. Y., Y., Y., Y., M. Y
Connected to voice call *The call is being processed normally
Service is not available *The authentication registration to the SIP server is failed. Retry registration.
Ringtone ON
Etiquette mode Vibration ON or Vibrate once
Ring & Vibrate at same time or Ring then Vibrate
Etiquette mode Mute ON *.To release or set Etiquette mode, press and hold asterisk * for a while
Alarm ON
New SMS message received
All function Locked
Battery level *The battery level is indicated in 6 different levels from Full to Charging cut off. Recharge your battery if the battery level reaches Charging cut off state immediately.
.



Entering text

To enter the phone number, write a message, set WiFi profile and enter text, refer to the following text entry method.



* You can move to text entry mode by pressing the soft key F2 as it is shown in the picture above.

	(/)		
1:/e	2	L ABC	S) H S) DEF	
A ⊒ GHI	15	JKL I	® MNO	
7 As	8	o TUV	ℚ wxy	
☆ I® I 획추가	(0)	OPER	왕 쌍자음	

Numbers	English Capital	English Small
2	A→B→C	a→b→c
3	D→E→F	d→e→f
4	G→H→I	g→h→i
5	J→K→L	j→k→l
6	$M\rightarrow N\rightarrow O$	m→n→o
7	P→Q→R→S	p→q→r→s
8	T→U→V	t→u→v
9	W→X→Y→Z	w→x→y→z
	·	·

^{*}Press the button once, twice or three times in order to enter first, second and third alphabet on the button

Special Character and 16 Hex Characters

1.,7e	2 ABC	3 ht
Ø GHI	15 kl 1	® MNO
7 A	® τὖν	g wxy
兴 I®I 획추가	0 oper	券 쌍자음

Numbers	Special Characters	Hex Character
1	! " #	1 → a
2	\$ % &	2→ b
3	'()	3→ c
4	* + ,	4→ d
5	/	5 → e
6	:;<	6→ f
7	> ? @	7
8	\^_	8
9	{ }	9



Installing

To configure the settings of AP-WP100, set the wireless LAN connection and SIP server registration.

Registering the Wireless LAN Connection

1. Search the wireless Access Point (AP) by pressing WiFi on AP-WP100



- 2. The connectable AP appears
- The icons of signal strength for authentication method is described below
- 4. The registered profile is marked with yellow star



5. Choose the connectable AP and press F1 soft key and then select Add Profile of the third option. The selected ESSID is set to the profile name.



6. Depending on AP settings, choose the option whether to use encryption or not to use encryption.





7. If you choose to use encryption, the following 4 methods (WEP 64BIT WEP 128BIT WPAPSK WPAPSK2) are available for selection.

8.



After using encryption is set, specify the IP information to be used from the profile.



9. For setting the Static IP method, enter the IP address, net mask, primary router information.

10.





SIP Server Registration

To register the user name and password, you need the information in the following picture.
 *For SIP server authentication information, ask the administrator of SIP server (IPNext Call Manager)





Using the Supplementary Features

1. Call Pickup

To pick up a call sent to the group (pick-up group), press Soft key F2.

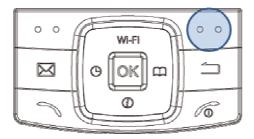


* Call Pickup requires the additional settings. Ask your administrator.

2. Call Forward

To direct a call to another phone user with extension or external phone line, press Soft key F2 and the phone number

After the forwarded phone user responses the call, press END.



- 3. Changing to the Speaker During the Phone Call
 If you want change to the speaker of AP-WP100 during the phoe, press Push to Talk button
 the right side of the main body.
 - You can turn ON/OFF by pressing PTT again





Troubleshooting

Checking Network Connection

Check the AP and network connection status, by pressing the info button on AP-WP100.



* The specified IP information and connected AP information are displayed by pressing Info as it is displayed in the picture below



Checking SIP Server Registration

.If SIP server is not connected, the icon bar on the top displays ..., then retry the registration.



AddPac

AddPac Technology Co., Ltd.

2F & 3F, Jeong-Am Bldg., 769-12 Yeoksam-dong, Gangnam-gu, Seoul, 135-080, Korea

Tel: +82 2 568 3848 Fax: +82 2 568 3847 Email: sales@addpac.com

http:// www.addpac.com

